



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5 CHICAGO REGIONAL LABORATORY  
536 SOUTH CLARK STREET  
CHICAGO, ILLINOIS 60605

**Date:** 8/16/2010  
**Subject:** Review of Region 5 Data for R06 Deep Water Chalmette  
**From:** David Schroeder *D.S.* *for Larry Zintek.*  
Region 5 Chicago Regional Laboratory  
**To:** Region 6, US EPA  
10625 Fallstone Road  
Houston, TX 77099

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-7444 for any comments or questions.

Attached are Results for: R06 Deep Water Chalmette

\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_  
Data Management Coordinator and Date Received

Date Transmitted: \_\_\_\_/\_\_\_\_/\_\_\_\_

Analyses included in this report:

RAM-DOSS



# Environmental Protection Agency Region 5 Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605  
Phone:(312)353-8370 Fax:(312)886-2591

Region 6, US EPA  
10625 Fallstone Road  
Houston TX, 77099

Project: R06 Deep Water Chalmette  
Project Number: T0033-100402-20100810-09  
Project Manager: Kristie Warr

Reported:  
Aug-16-10 14:38

## ANALYSIS CASE NARRATIVE

**Analyst: Larry Zintek (312) 886-2925**

### General Information

Fifteen samples were received by the Chicago Regional Laboratory for dioctyl sulfosuccinate (DOSS) analysis on August 12, 2010. Samples from Work Order 1008028 were received in 40 mL VOA vials labeled HCl preserved. The pH was checked at CRL with pH paper and the samples were not below a pH of 6. The contractor was contacted and indicated that the vials used contained HCl and were rinsed with surface water to remove the acid before sampling. The samples were received at or less than 6°C.

### Sample Analysis and Results

Analysis of dioctyl sulfosuccinate in water by LC/MS/MS was carried out using CRL Region 5 Regional Analytical Method for Dioctyl Sulfosuccinate (RAM-DOSS, CAS 577-11-7) in Sea Water by Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). None of the sample results were above the DOSS detection verification level (6 ppb) or the reporting level (20 ppb).

The 1008025, 1008026, 1008027 and 1008028 supporting data are stored with 1008023.

### Quality Control

All quality control criteria not mentioned met acceptance limits stated in the Draft Procedure.



# Environmental Protection Agency Region 5 Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605  
Phone:(312)353-8370 Fax:(312)886-2591

Region 6, US EPA  
10625 Fallstone Road  
Houston TX, 77099

Project: R06 Deep Water Chalmette  
Project Number: T0033-100402-20100810-09  
Project Manager: Kristie Warr

Reported:  
Aug-16-10 14:38

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T008-0020-100810-SW-1	1008028-01	Water	Aug-10-10 12:14	Aug-12-10 09:45
T008-0021-100810-SW-1	1008028-02	Water	Aug-10-10 13:20	Aug-12-10 09:45

### Analysis by LC MS MS

#### US EPA Region 5 Chicago Regional Laboratory

T008-0020-100810-SW-1 (1008028-01) Water Sampled: Aug-10-10 12:14 Received: Aug-12-10 09:45


Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100858	Aug-12-10	Aug-12-10

Surrogate: DOSS-D34 93.6 63.2 % 50-150 " " "

T008-0021-100810-SW-1 (1008028-02) Water Sampled: Aug-10-10 13:20 Received: Aug-12-10 09:45

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100858	Aug-12-10	Aug-12-10

Surrogate: DOSS-D34 88.6 57.6 % 50-150 " " "

  
David Schroeder, Chemist



# Environmental Protection Agency Region 5 Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605  
Phone:(312)353-8370 Fax:(312)886-2591

Region 6, US EPA  
10625 Fallstone Road  
Houston TX, 77099

Project: R06 Deep Water Chalmette  
Project Number: T0033-100402-20100810-09  
Project Manager: Kristie Warr

Reported:  
Aug-16-10 14:38

## Analysis by LC MS MS - Quality Control US EPA Region 5 Chicago Regional Laboratory

### Batch B100858 - \*\*\* DEFAULT PREP \*\*\*

#### Blank (B100858-BLK1)

Prepared & Analyzed: Aug-12-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	U	U		20.0	ug/L					

Surrogate: DOSS-D34 281 " 200.0 141 50-150

#### LCS (B100858-BS1)

Prepared & Analyzed: Aug-12-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	168			20.0	ug/L	200.0		84.0 50-150		

Surrogate: DOSS-D34 184 " 200.0 92.2 50-150

#### LCS Dup (B100858-BSD1)

Prepared & Analyzed: Aug-12-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	184			20.0	ug/L	203.0		90.5 50-150	8.98	30

Surrogate: DOSS-D34 191 " 203.0 93.9 50-150



# Environmental Protection Agency Region 5 Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605  
Phone:(312)353-8370 Fax:(312)886-2591

Region 6, US EPA  
10625 Fallstone Road  
Houston TX, 77099

Project: R06 Deep Water Chalmette  
Project Number: T0033-100402-20100810-09  
Project Manager: Kristie Warr

Reported:  
Aug-16-10 14:38

## Analysis by LC MS MS - Quality Control US EPA Region 5 Chicago Regional Laboratory

### Batch B100858 - \*\*\* DEFAULT PREP \*\*\*

Duplicate (B100858-DUP1)				Source: 1008028-01								Prepared & Analyzed: Aug-12-10	
Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit		
diethyl sulfosuccinate	U	U		20.0	ug/L		U				200		

Surrogate: DOSS-D34 75.5 " 133.3 56.6 50-150

Matrix Spike (B100858-MS1)				Source: 1008028-01								Prepared & Analyzed: Aug-12-10	
Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit		
diethyl sulfosuccinate	90.1			20.0	ug/L	160.0	U	56.3	50-150				

Surrogate: DOSS-D34 94.1 " 160.0 58.8 50-150

Matrix Spike Dup (B100858-MSD1)				Source: 1008028-01								Prepared & Analyzed: Aug-12-10	
Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit		
diethyl sulfosuccinate	76.0			20.0	ug/L	137.9	U	55.1	50-150	16.9	30		

Surrogate: DOSS-D34 78.5 " 137.9 56.9 50-150



Environmental Protection Agency Region 5  
**Chicago Regional Laboratory**

536 South Clark Street, Chicago, IL 60605  
Phone:(312)353-8370 Fax:(312)886-2591

Region 6, US EPA  
10625 Fallstone Road  
Houston TX, 77099

Project: R06 Deep Water Chalmette  
Project Number: T0033-100402-20100810-09  
Project Manager: Kristie Warr

**Reported:**  
Aug-16-10 14:38

**Analysis by LC MS MS - Quality Control**  
**US EPA Region 5 Chicago Regional Laboratory**



Environmental Protection Agency Region 5  
**Chicago Regional Laboratory**

536 South Clark Street, Chicago, IL 60605  
Phone:(312)353-8370 Fax:(312)886-2591

Region 6, US EPA  
10625 Fallstone Road  
Houston TX, 77099

Project: R06 Deep Water Chalmette  
Project Number: T0033-100402-20100810-09  
Project Manager: Kristie Warr

**Reported:**  
Aug-16-10 14:38

**Notes and Definitions**

U Not Detected  
NR Not Reported

## Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			VERSION 6.05:2003
	RAM-DOSS	(Water)	Special Units: (ug/L)
	RAM-DOSS	(Water)	U-Flags used